FIG. 1

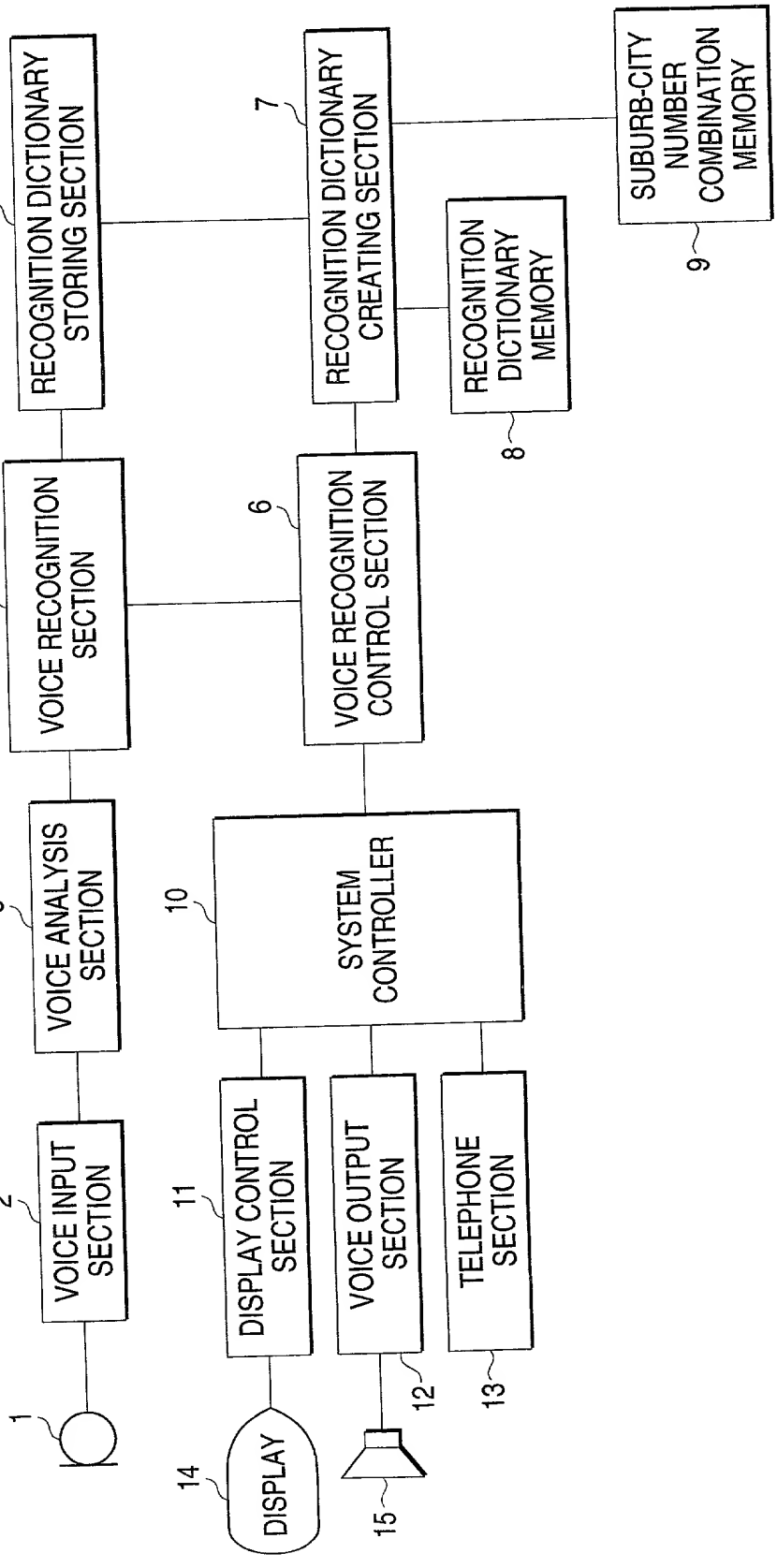

1
2
VOICE INPUT SECTION
3
VOICE ANALYSIS SECTION
4
VOICE RECOGNITION SECTION
5
RECOGNITION DICTIONARY STORING SECTION
6
VOICE RECOGNITION CONTROL SECTION
7
RECOGNITION DICTIONARY CREATING SECTION
8
RECOGNITION DICTIONARY MEMORY
9
SUBURB-CITY NUMBER COMBINATION MEMORY
10
SYSTEM CONTROLLER
11
DISPLAY CONTROL SECTION
12
VOICE OUTPUT SECTION
13
TELEPHONE SECTION
14
DISPLAY
15

FIG. 2

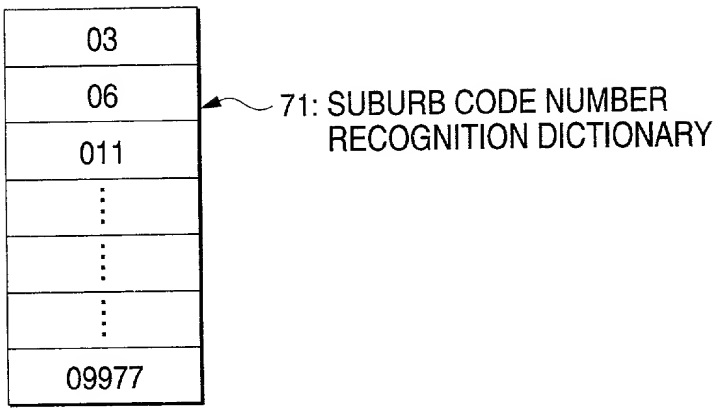


FIG. 3

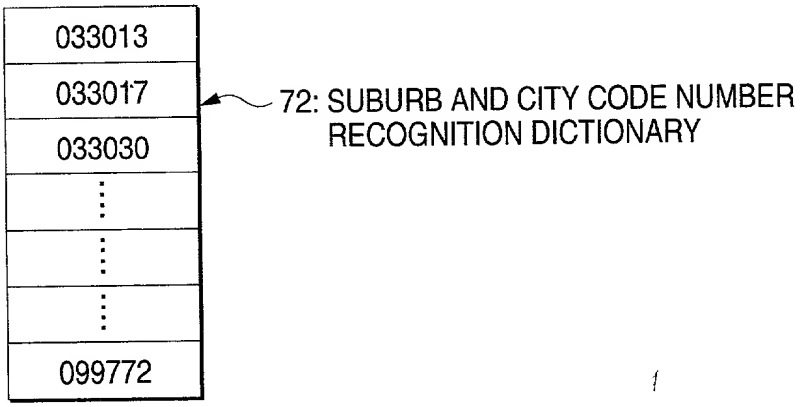


FIG. 4

CITY CODE NUMBER RECOGNITION DICTIONARY

SUBURB CODE NUMBER ID	CITY CODE NUMBER ID
1 (SUBURB CODE 03)	3013, 3017, 3030, · · ·
2 (SUBURB CODE 06)	6202, 6203, 3204, · · ·
⋮	⋮
n (SUBURB CODE 09977)	2, 3, 4, · · ·

FIG. 5

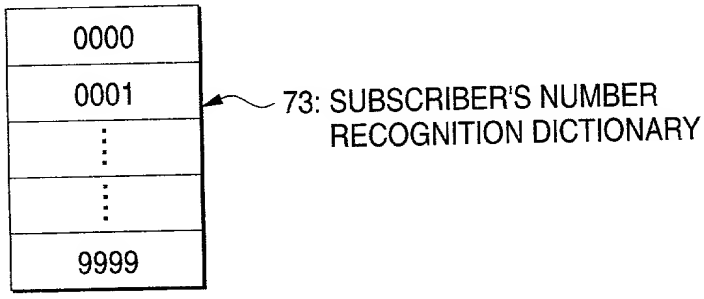


FIG. 6

SUBURB CODE NUMBER ID TABLE

SUBURB CODE	CITY CODE NUMBER CORRESPONDING TO SUBURB CODE NUMBER
03	CITY CODE ID 0
06	CITY CODE ID 1
⋮	⋮
⋮	⋮
09977	CITY CODE ID n

FIG. 7

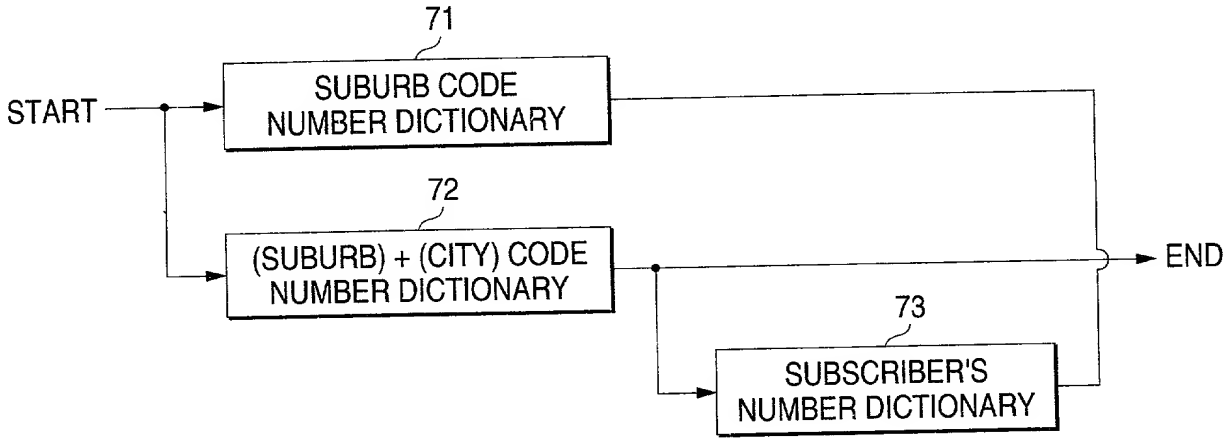


FIG. 8

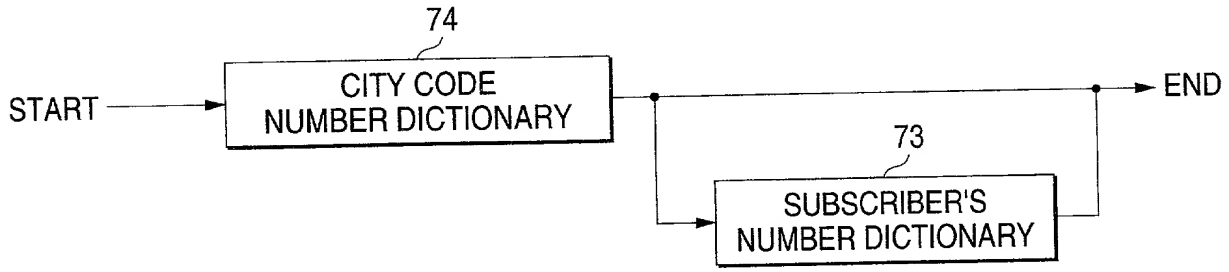


FIG. 9

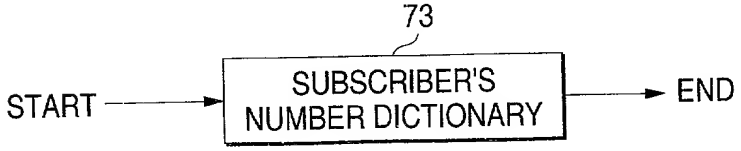


FIG. 10

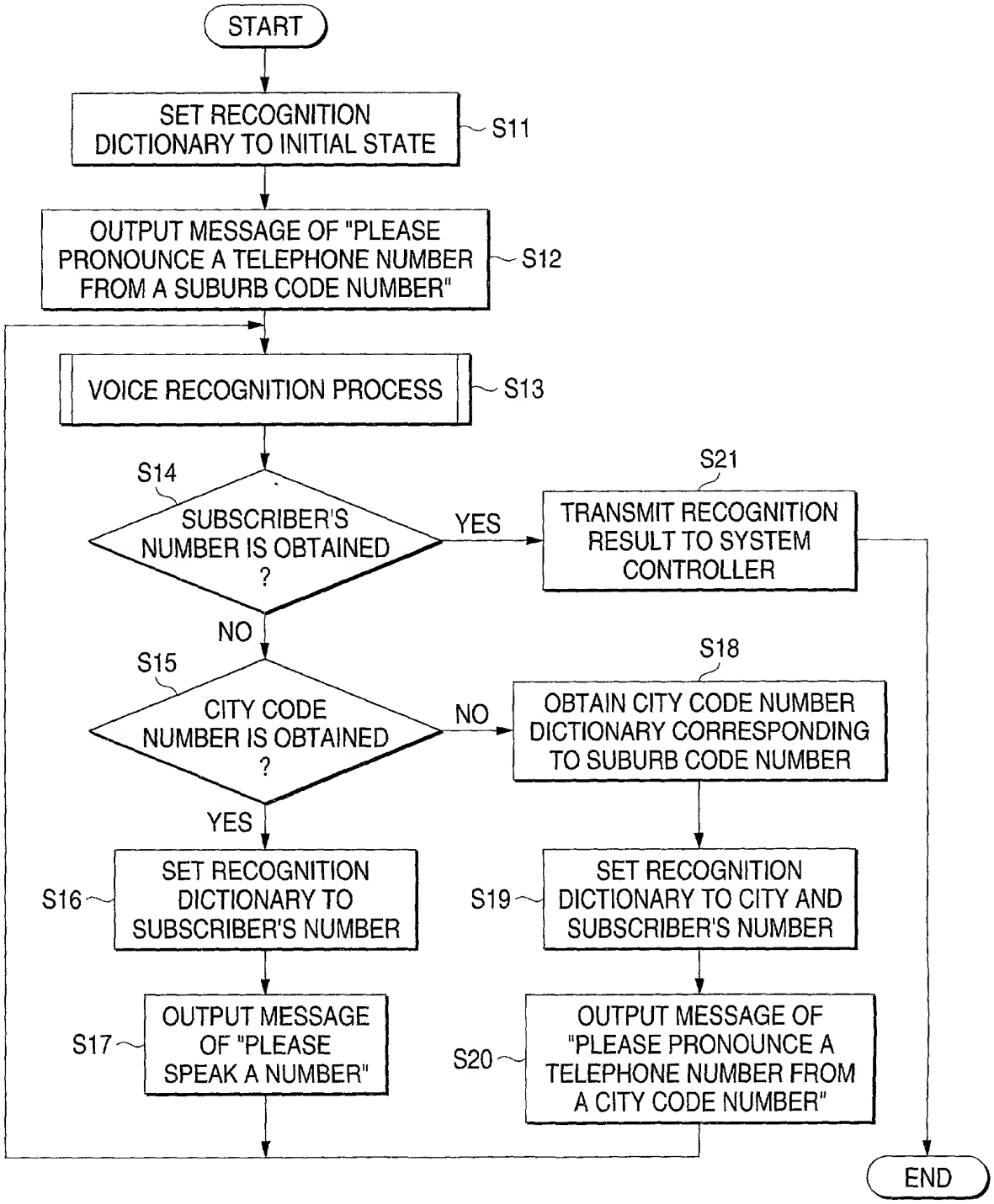
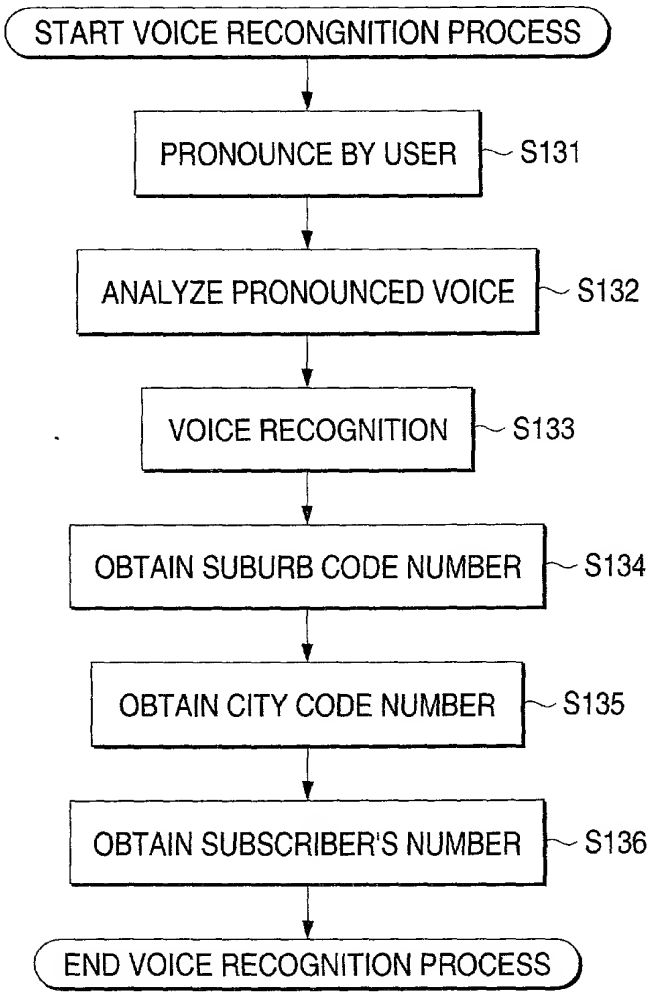

START
SET RECOGNITION DICTIONARY TO INITIAL STATE
S11
OUTPUT MESSAGE OF "PLEASE PRONOUNCE A TELEPHONE NUMBER FROM A SUBURB CODE NUMBER"
S12
VOICE RECOGNITION PROCESS
S13
S14
SUBSCRIBER'S NUMBER IS OBTAINED ?
YES
S21
TRANSMIT RECOGNITION RESULT TO SYSTEM CONTROLLER
NO
S15
CITY CODE NUMBER IS OBTAINED ?
NO
S18
OBTAIN CITY CODE NUMBER DICTIONARY CORRESPONDING TO SUBURB CODE NUMBER
YES
S16
SET RECOGNITION DICTIONARY TO SUBSCRIBER'S NUMBER
S19
SET RECOGNITION DICTIONARY TO CITY AND SUBSCRIBER'S NUMBER
S17
OUTPUT MESSAGE OF "PLEASE SPEAK A NUMBER"
S20
OUTPUT MESSAGE OF "PLEASE PRONOUNCE A TELEPHONE NUMBER FROM A CITY CODE NUMBER"
END

FIG. 11


START VOICE RECONGNITION PROCESS
PRONOUNCE BY USER
S131
ANALYZE PRONOUNCED VOICE
S132
VOICE RECOGNITION
S133
OBTAIN SUBURB CODE NUMBER
S134
OBTAIN CITY CODE NUMBER
S135
OBTAIN SUBSCRIBER'S NUMBER
S136
END VOICE RECOGNITION PROCESS